



Rapid Acceleration of Diagnostics for Underserved Populations

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RADx Projects



RADx Tech – \$500M

Highly competitive, rapid three-phase challenge to identify the best candidates for at-home or point-of-care tests for COVID-19



RADx Underserved Populations (RADx-UP) – \$500M

Interlinked community-based demonstration projects focused on implementation strategies to enable and enhance testing of COVID-19 in vulnerable populations



RADx Radical (RADx-Rad) – \$200M

Develop and advance novel, non-traditional approaches or new applications of existing approaches for testing



RADx Advanced Testing Program (RADx-ATP) – \$230M

Rapid scale-up of advanced technologies to increase rapidity and enhance and validate throughput – create ultra-high throughput machines and facilities



Data Management Support – \$70M

Build an infrastructure for and support coordination of the various data management needs of many of the COVID-19 efforts

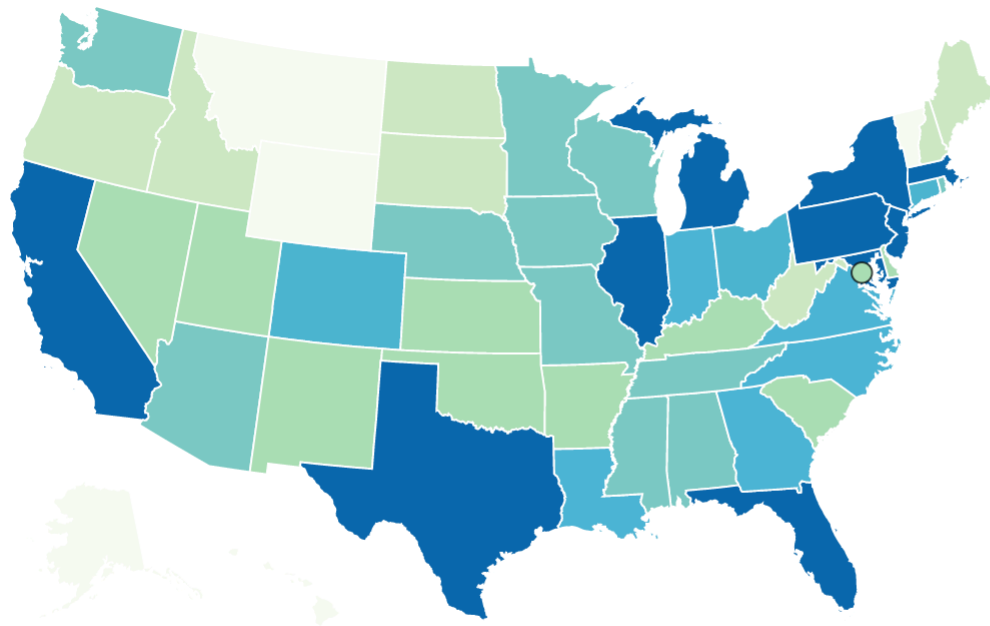


COVID-19 and Racial/Ethnic Disparities

- Numerous reports of disproportionate burden of COVID-19 on racial and ethnic minority populations have emerged
- Possible underlying causes of this burden related to long-standing disparities and disadvantage, higher rates of co-morbid conditions, higher proportions of public facing jobs, and crowding in housing and communities
- Imperative need for implementing prevention and healthcare strategies aligned with the needs of these communities to address effects of pandemic and mitigation efforts as well as underlying inequities



COVID-19 Cases Across the U.S.



Reported Cases

● 0 to 1,000

● 1,001 to 5,000

● 5,001 to 10,000

● 10,001 to 20,000

● 20,001 to 40,000

- 40,001 or more

AS

GU

MH

FM

MP

PW

PR

VI



RADx-UP Strategies

- Understand factors that contribute to COVID-19 disparities and implement interventions to reduce these disparities
- Expand capacity to test broadly for viral nucleic acids in the population that is most affected including asymptomatic persons
- Implement mitigation strategies based on isolation and contact tracing to limit community transmission
- Anticipate opportunity to evaluate and distribute vaccines and potential therapeutic candidates
- Opportunity to deploy validated point of care tests as these are available including self-test methods and use of saliva samples



COVID-19 Testing Across the U.S.

United States Laboratory Testing Commercial and Reference, Public Health, and Hospital Laboratories

USA
13,627,379
TESTS REPORTED
CDC | Updated: May 22 2020 7:03PM

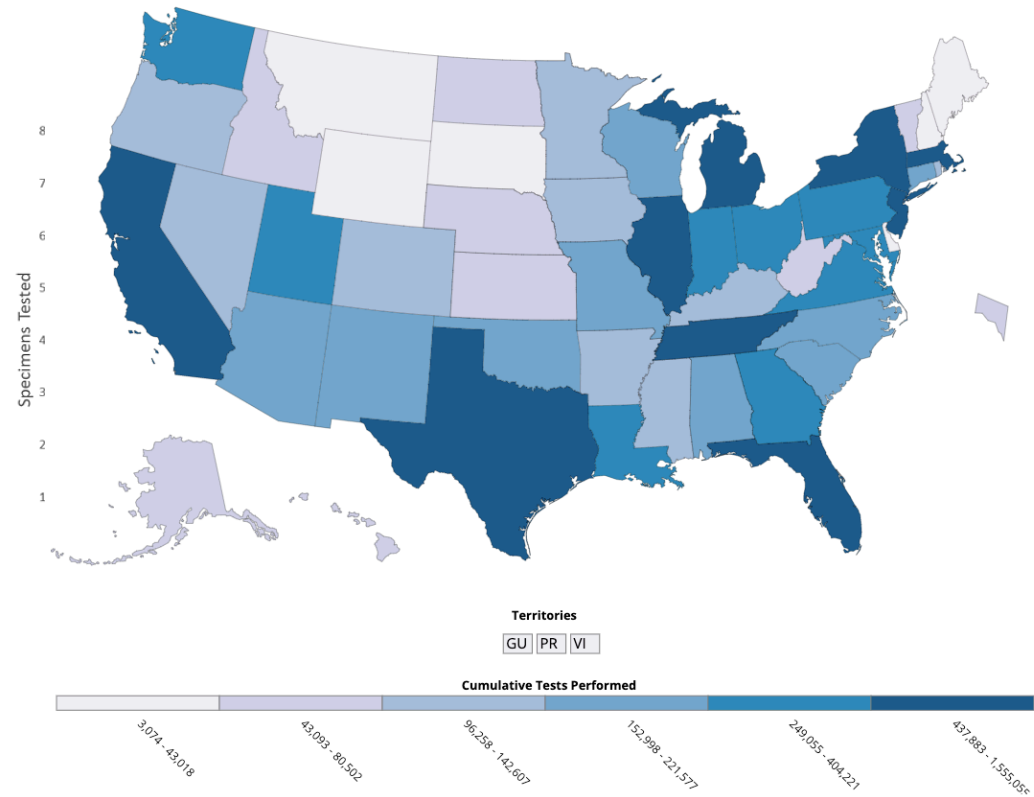
USA
1,771,749
POSITIVE TESTS
CDC | Updated: May 22 2020 7:03PM

USA
13%
**OVERALL %
POSITIVE**
CDC | Updated: May 22 2020 7:03PM



<https://www.cdc.gov/covid-data-tracker/index.html>

Preliminary data: Reported by U.S. Laboratories including Commercial and Reference, Public Health, and Hospital
Totals may include antibody data from some states



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NATIONAL & WORLD AFFAIRS

For Native Americans, COVID-19 is 'the worst of both worlds at the same time'

The Skywalk over the Grand Canyon was closed by the Hualapai tribe to create social distancing measures during the pandemic.

ton Lawrimore/Unsplash



Rural America Could Be the Region Hardest Hit by the COVID-19 Outbreak



Many Who Need Testing For COVID-19 Fail To Get Access

April 3, 2020 · 5:00 AM ET

The Striking Racial Divide in How Covid-19 Has Hit Nursing Homes

Homes with a significant number of black and Latino residents have been twice as likely to be hit by the coronavirus as those where the population is overwhelmingly white.

Black Americans Face Alarming Rates of Coronavirus Infection in Some States

Data on race and the coronavirus is too limited to draw sweeping conclusions, experts say, but disparate rates of sickness — and death — have emerged in some places.

COVID-19 in Prisons and Jails in the United States

Laura Hawks, MD^{1,2}; Steffie Woolhandler, MD, MPH^{2,3}; Danny McCormick, MD, MPH^{1,2}

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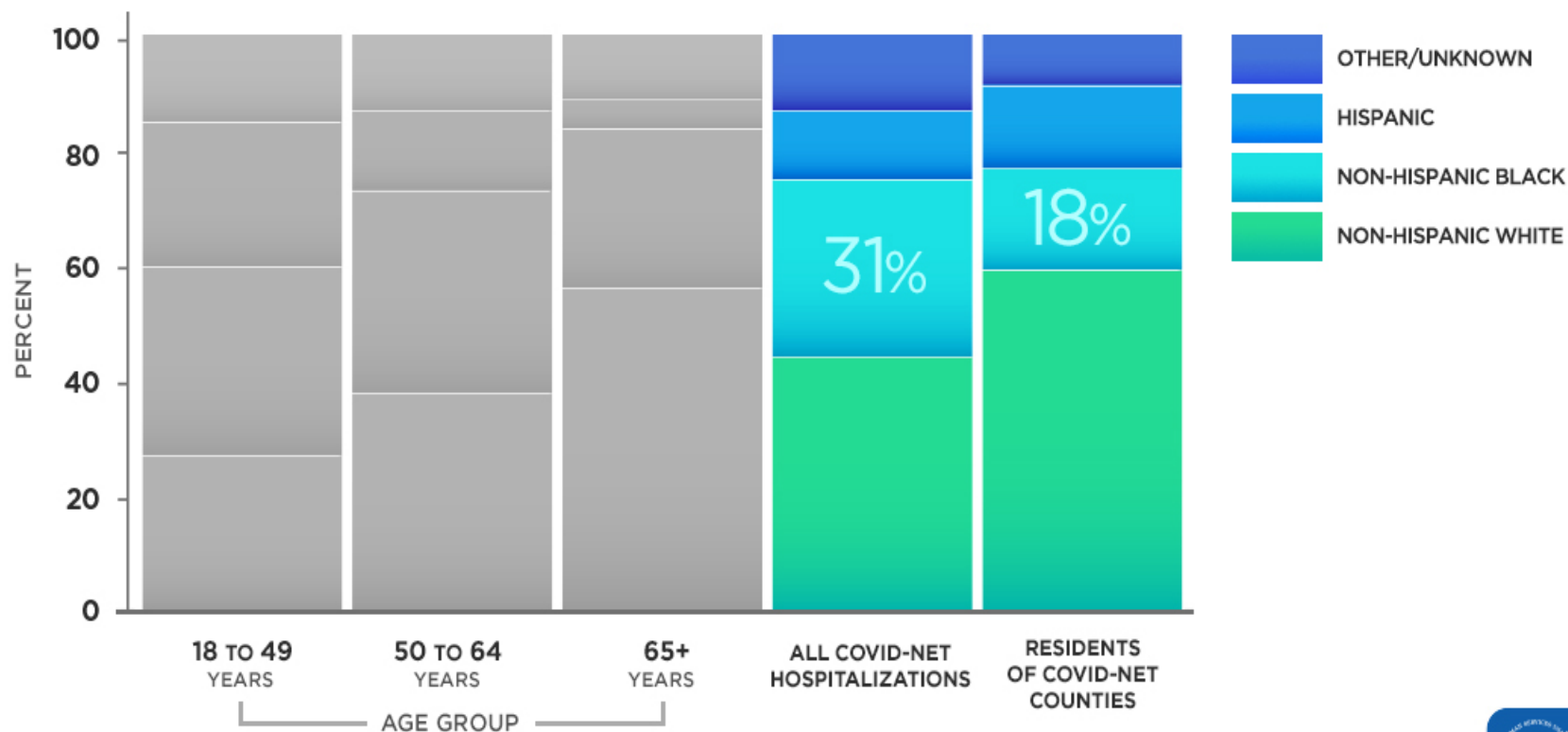
JAMA Intern Med. Published online April 28, 2020. doi:10.1001/jamainternmed.2020.1856



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When comparing to residents who live in COVID-NET counties, **non-Hispanic black people** were disproportionately hospitalized with COVID-19.



COVID-NET is a surveillance system that tracks COVID-19 hospitalizations in selected counties in 14 states. Data from March 1-April 18, 2020.

*Note: Data are currently insufficient to draw conclusions about race in hospitalized patients that are < 18 years old.



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Strategy for RADx



RADx-Underserved Populations (RADx-UP) Project – \$500M

Goal: Leverage existing community partnerships to implement culturally relevant testing strategies in underserved and vulnerable populations

Phase I (FY20-21, \$250M):

Phase Ia:

- Coordination and Data Collection Center (CDCC) –\$15M per year, 1 site for 4 y; new U24 cooperative agreement managed in NIMHD
- Collaborative network of research centers and large networks with established community-engagement experience in underserved populations– up to \$5M/site, ~25 sites; supplements

Phase Ib:

- Collaborative network of clinical research grants across the country –\$1M/site, up to 30 sites; competitive revisions or new R01s
- Social, Ethical, and Behavioral Implications (SEBI) program –\$5M total, 5-8 sites at \$400,000 each; competitive revisions/new R01s



OD Strategy for RADx



RADx-Underserved Populations (RADx-UP) Project – \$500M

Phase II (FY22-24, \$250M):

- Continue SEBI program – up to \$5M, 5-8 sites; competitive revisions/new R01s
- Renewal or expansion of Phase I components + new awards for synthetic network of clinical research sites and centers – up to \$245M; competitive revisions/new awards

Anticipated Timeline:

- Phase I FOAs published week of June 8
- Phase I awards made by end of FY20: September
- Phase II awards made in FY21/22



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